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[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Jul  
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Set Items Description

S1 199 S (MULTIPLE? ? OR PLURAL??? OR MANY OR TWO OR 2 OR SECOND OR 2ND OR TWOFOLD OR DUAL OR MULTI OR PAIR???) (10N) (VLAN? ? OR V() LAN OR (VIRTUAL() LAN? ?) OR (VIRTUAL(1W) LOCAL(1W) AREA(1W) NETWORK)(2W) (TAG? ? OR ID? ? OR IDENTIFIER? ? OR LABEL? ?))  
S2 19 S S1(20N) (INSERT??? OR ATTACH??? OR WRIT??? OR INCLUD??? OR ADD??? OR INTEGRAT??? OR SUM OR SUMMING OR COMBIN??? OR JOIN???)  
S3 34 S (REMOV??? OR TRANSFER??? OR (TAKE(1W) (AWAY OR OFF)) OR KILL??? OR ELIMINAT??? OR EXTERMINAT??? OR DROP??? OR ERAS??? OR EXCLUD??? OR DISMISS??? OR WITHDRAW???) (20N) (VLAN? ? OR V() LAN OR (VIRTUAL() LAN? ?) OR (VIRTUAL(1W) LOCAL(1W) AREA(1W) NETWORK)(2W) (TAG? ? OR ID? ? OR IDENTIFIER? ? OR LABEL? ?))  
S4 0 S S3 AND S2  
S5 46 S S1 AND (INSERT??? OR ATTACH??? OR WRIT??? OR INCLUD??? OR ADD??? OR INTEGRAT??? OR SUM OR SUMMING OR COMBIN??? OR JOIN???)  
S6 229 S (REMOV??? OR TRANSFER??? OR (TAKE(1W) (AWAY OR OFF)) OR KILL??? OR ELIMINAT??? OR EXTERMINAT??? OR DROP??? OR ERAS??? OR EXCLUD??? OR DISMISS??? OR WITHDRAW???) AND (VLAN? ? OR V() LAN OR (VIRTUAL() LAN? ?) OR (VIRTUAL(1W) LOCAL(1W) AREA(1W) NETWORK)(2W) (TAG? ? OR ID? ? OR IDENTIFIER? ? OR LABEL? ?))  
S7 15 S S5 AND S6  
S8 12 RD (unique items)  
S9 0 S S1 AND (AU=(HIDAKA, Y? OR HIDAKA Y?))  
S10 0 S S1 AND (AU=(SHIBUTANI, M? OR SHIBUTANI M?))  
S11 0 S S1 AND (AU=(IWATA, A? OR IWATA A?))  
S12 0 S S1 AND (AU=(UMAYABASHI, M? OR UMayABASHI M?))  
S13 0 S S1 AND (AU=(ENOMOTO, N? OR ENOMOTO N?))

?



### **Subject summary**

? t/3,k/all

8/3,K/1 (Item 1 from file: 56) [Links](#)

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Computer and Information Systems Abstracts

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0000588634 IP Accession No: 200701-90-003563

#### **McData Simplifies SAN Expansion**

Harbaugh, Logan C

InfoWorld , n 6 , p 32, 33 , 7 Feb. 2005

**Publication Date:** 2005

**Publisher:** InfoWorld Media Group , 501 Second Street , San Francisco , CA , 94107

**Country Of Publication:** USA

**Publisher Url:** <http://www.infoworld.com>

**Publisher Email:** [customerservice@infoworld.com](mailto:customerservice@infoworld.com)

**Document Type:** Journal Article

**Record Type:** Abstract

**Language:** English

**ISSN:** 0199-6649

**File Segment:** Computer & Information Systems Abstracts

#### **Abstract:**

...which are often achieved by bonding multiple ports together. There is a new option to **eliminate** switch-port congestion and SAN fumbling, however. McData's just-released Intrepid i10K Director, an enterprise-class FC switch, has the capacity to consolidate multiple SANs. It also **includes** features taken for granted in the Ethernet switch world, such as creation of the equivalent of **VLANS** by partitioning the SAN fabric into **multiple** fabrics, and features for remote sites that make data distribution and replication easier, faster, and...

**Descriptors:** Switches; Styrene acrylonitrile resins; Ports; Fabrics; **VLAN**; Information technology; Equivalence; Replication; Bonding; Channels; Consolidation; Counting; **Joints**; Consumption; Partitioning; Ethernet ; Congestion

8/3,K/2 (Item 2 from file: 56) [Links](#)

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Computer and Information Systems Abstracts

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0000307586 IP Accession No: 314861

#### **Virtual LAN internetworking over ATM networks for mobile stations**

Huang, Nen-Fu; Wang, Yao-Tzung; Li, Bo; Liu, Te-Lung Natl Tsing Hua Univ, Hsinchu, Taiwan

PROC IEEE INFOCOM , v 3 , p 1397-1403 , 1997

**Publication Date:** 1997

**Publisher:** IEEE, PISCATAWAY, NJ, (USA)

#### **Conference:**

The 1997 16th IEEE Annual Conference on Computer Communications, INFOCOM. Part 3 (of 3) , Kobe , Jpn , 07-12 Apr. 1997

**Document Type:** Conference Paper; Journal Article

**Record Type:** Abstract

**Language:** English

**ISSN:** 0743-166X

**File Segment:** Computer & Information Systems Abstracts

#### **Virtual LAN internetworking over ATM networks for mobile stations**

#### **Abstract:**

One of the most attractive features of the virtual LAN ( VLAN) is the capability to group users into broadcast domains, which are independent of their locations on the physical network. This paper deals with the VLAN services using ATM LAN emulation technology which operates on a client/server model. The focuses are on the issues of supporting transparent VLAN services and internetworking among VLANs for mobile stations. A mobile VLAN (MVLAN) architecture is proposed, perhaps for the first time, to efficiently maintain multiple VLAN broadcast domains over a single ATM network even when the VLANs contain mobile stations. The proposed solution 1) ensures that layer 2 frames between a mobile station and any station, either static or mobile, that belongs to the original registered VLAN can be exchanged transparently, 2) provides transparent communications between VLANs using layer 2 bridging approach, and 3) handles excessive server-to-server traffic efficiently, including the broadcast/multicast frames. The proposed MVLAN architecture brings one step closer towards facilitating the...

**Descriptors:** Asynchronous transfer mode; Radio stations; Radio broadcasting; Telecommunication traffic

**Identifiers:** Virtual local area networks (VLAN)

8/3,K/3 (Item 3 from file: 56) [Links](#)

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Computer and Information Systems Abstracts

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0000257388 IP Accession No: 0143223

#### **Switch puts virtual LANs on automatic pilot**

Saunders, Stephen

Data Communications , v 23 , n 12 , p 45-46 , 1994

**Publication Date:** 1994

**Document Type:** Journal Article

**Record Type:** Abstract

**Language:** English

**ISSN:** 0363-6399

**File Segment:** Computer & Information Systems Abstracts

**Switch puts virtual LANs on automatic pilot**

**Abstract:**

ATMizer 125 Relational Switch, which combines Ethernet and ATM ports in the same unit, is the first ever to automate virtual LAN configuration. The ATMizer inspects traffic and user header information to assign nodes that share a subnetwork address and protocol to the same virtual LAN; nodes that run multiple protocols are assigned to more than one workgroup. Other features and performance as well as...

**Identifiers:** Local area network switches; Network managers; Asynchronous transfer mode; Backbone topology; Token ring

8/3,K/4 (Item 1 from file: 8) [Links](#)

Fulltext available through: [ScienceDirect](#)

Ei Compendex(R)

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11113968 **E.I. No:** EIP06289990238

**Title:** A secure VLAN construction protocol in wireless ad hoc networks

**Author:** Wang, Tzone-I.; Yeh, Ching-Hung; Huang, Yueh-Min

**Corporate Source:** Department of Engineering Science National Cheng-Kung University, Taiwan, Taiwan

**Conference Title:** ITRE 2005 - 3rd International Conference on Information Technology: Research and Education

**Conference Location:** Hsinchu, Taiwan **Conference Date:** 20050627-20050630

**E.I. Conference No.:** 67660

**Source:** ITRE 2005 - 3rd International Conference on Information Technology: Research and Education - Proceedings

ITRE 2005 - 3rd International Conference on Information Technology: Research and Education - Proceedings v 2005

2005. (IEEE cat n 05EX1014)

**Publication Year:** 2005

**DOI:** 10.1109/ITRE.2005.1503068

**DOI:** [10.1109/ITRE.2005.1503068](#)

**Article Number:** 1503068

**Language:** English

**Title:** A secure VLAN construction protocol in wireless ad hoc networks

**Abstract:** The Virtual Local Area Network (VLAN) technology is one of the hottest areas of networking systems. A VLAN is a logical rather than physical connection that allows network devices to be combined as "virtual LANs". By this characteristic, VLAN segment the network into different broadcast domains so that packets are only delivered between ports that are combined for the same VLAN. Wireless ad hoc networks also have the flexibility to collect more than two devices equipped... all devices in an ad hoc network. So an ad hoc network needs to form multiple-group as "virtual LANs" to ensure reasonable performance and security. In this paper we propose a secure VLAN construction protocol (SVCP) in wireless ad hoc networks. For eliminating broadcast drawback, source node will serve as a temporary agent to form a VLAN which generates a group key for secure communications. copy 2005 IEEE. 14 Refs.

**Identifiers:** Virtual Local Area Network (VLAN); Wireless ad hoc networks; Multiple groups

8/3,K/5 (Item 2 from file: 8) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

Ei Compendex(R)

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07977733 **E.I. No:** EIP98034130611

**Title:** Next generation local area networks

**Author:** Newson, D.J.; Ginsburg, D.; Wilkins, M.T.

**Source:** BT Technology Journal v 16 n 1 Jan 1998. p 76-87

**Publication Year:** 1998

**CODEN:** BTTJEY **ISSN:** 0265-0193

**Language:** English

**Abstract:** ...now consider the local area network (LAN) to which their desktop personal computer (PC) is attached to be more important to them than the telephone network, resulting in a drive to... applications. This encompasses both new technologies such as Gigabit Ethernet, and new architectures such as virtual LANs (VLANs), multi-protocol over ATM (MPOA) and multi-protocol over LANs (MPOL). (Author abstract) 14 Refs.

**Descriptors:** ...computers; Reliability; Telecommunication traffic; Congestion control (communication); Computer architecture; Network protocols; Interactive computer systems; Asynchronous transfer mode

**Identifiers:** Multiprotocols; Intranets; Virtual local area networks (VLAN)

8/3,K/6 (Item 3 from file: 8) [Links](#)

Fulltext available through: [custom link](#) [USPTO Full Text Retrieval Options](#)

Ei Compendex(R)

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07075804 E.I. No: EIP95022575999

**Title:** Making virtual LANs a virtual snap

**Author:** Anon

**Source:** Data Communications v 24 n 1 Jan 1995. p 72-74

**Publication Year:** 1995

**CODEN:** DACODM **ISSN:** 0363-6399

**Language:** English

**Title:** Making virtual LANs a virtual snap

**Abstract:** Virtual LANs can present net managers with the stressful mouse-induced pointing and clicking because most LAN switches and routers that come with virtual LAN facilities require virtual workgroups to be set up and administered manually from a management console ... Inc (Concord, MA) has developed the ATMizer 125 Relational Switch by automatically allocating users to virtual LANs based on two criteria: network protocol and subnet address. The Ethernet/ATM switch owes its virtual LAN edge to a unique design that combines the self-learning abilities of a MAC-layer bridge with a router's ability to... those workstations using the same protocol and having the same subnetwork address into the same virtual LAN. As network nodes are moved, added, or changed, the Agile switch reassigns them to the appropriate virtual LAN.

**Descriptors:** \*Local area networks; Virtual reality; Switching networks; Network protocols; Asynchronous transfer mode; Telecommunication traffic; User interfaces; Computer software; Packet switching; Computer workstations

**Identifiers:** Internetworking; Virtual LAN; Virtual snap

8/3,K/7 (Item 1 from file: 2) [Links](#)

Fulltext available through: [ScienceDirect](#)

INSPEC

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09669895

**Title:** A secure VLAN construction protocol in wireless ad hoc networks

**Author** Tzone-I Wang; Ching-Hung Yeh; Yueh-Min Huang

**Author Affiliation:** Dept. of Eng. Sci., Nat. Cheng Kung Univ., Tainan, Taiwan

**Conference Title:** 3rd International Conference on Information Technology: Research and Education p. 68-72

**Publisher:** IEEE Computer Society, Piscataway, NJ, USA

**Publication Date:** 2005 **Country of Publication:** USA xviii+503 pp.

**ISBN:** 0 7803 8932 8 **Material Identity Number:** XX-2005-01274

**U.S. Copyright Clearance Center Code:** 0-7803-8932-8/05/\$20.00

**Conference Title:** 3rd International Conference on Information Technology: Research and Education

**Conference Date:** 27-30 June 2005 **Conference Location:** Hsinchu, Taiwan

**Language:** English

**Subfile:** B C

Copyright 2005, IEE

**Title:** A secure VLAN construction protocol in wireless ad hoc networks

**Abstract:** The virtual local area network (VLAN) technology is one of the hottest areas of networking systems. A VLAN is a logical rather than physical connection that allows network devices to be combined as "virtual LANs". By this characteristic, VLAN segment the network into different broadcast domains so that packets are only delivered between ports that are combined for the same VLAN. Wireless ad hoc networks also have the flexibility to collect more than two devices equipped... all devices in an ad hoc network. So an ad hoc network needs to form multiple-group as "virtual LANs" to ensure reasonable performance and security. In this paper we propose a secure VLAN construction protocol (SVCP) in wireless ad hoc networks. For eliminating broadcast drawback, source node will serve as a temporary agent to form a VLAN, which generates a group key for secure communications.

**Identifiers:** secure VLAN construction protocol... virtual LAN;

8/3,K/8 (Item 2 from file: 2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

INSPEC

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09363357

**Title:** Intelligent MCs debunk perceptions

**Journal:** Communications News vol.41, no.10 p. 42-4

**Publisher:** Nelson Publishing,

**Publication Date:** Oct. 2004 **Country of Publication:** USA

**CODEN:** CMUNA9 **ISSN:** 0010-3632

**SICI:** 0010-3632(200410)41:10L:42:IDP;1-O

**Material Identity Number:** F947-2004-012

**Language:** English

**Subfile:** D

Copyright 2005, IEE

**Abstract:** ...lines. By converting copper to fiber, IT managers can extend network distances, add security and eliminate electromagnetic interference. Media converters also provide fiber-to-fiber conversion to enable dual-fiber to... data flow using wavelength divisional multiplexing. Media converters support multiple network types and data rates, including 10, 100, 10/100, 10/100/1000 Ethernet, OC-3, OC-12, OC-48, T-1, T-3, asynchronous transfer mode, synchronous optical

network and serial technologies. One of the important advancements in media converter technology is the ability to support **virtual LANs (VLANs)**. The **two** types of **VLAN** technology supported by media converters are port **VLAN** and tag **VLAN**. Port **VLAN** enables a network administrator to specify and restrict traffic flow between a media converter's fiber and UTP ports, providing security and intrusion protection. Tag **VLAN** incorporates the IEEE 802.1Q packet tagging and untagging standard, **including** double-tagging. Ironically, the old perception that media converters would become obsolete because conversion technology...

**Identifiers:** ...asynchronous transfer mode... ..virtual LAN;

8/3,K/9 (Item 3 from file: 2) [Links](#)

Fulltext available through: [ScienceDirect](#)

INSPEC

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06919867 **INSPEC Abstract Number:** B9806-6210L-125, C9806-5620L-044

**Title:** Virtual LAN internetworking over ATM networks for mobile stations

**Author** Nen-Fu Huang; Yai-Tzung Wang; Bo Li; Te-Lung Liu

**Author Affiliation:** Dept. of Comput. Sci., Nat. Tsing Hua Univ., Hsinchu, Taiwan

**Conference Title:** Proceedings IEEE INFOCOM '97. The Conference on Computer Communications. Sixteenth Annual Joint Conference of the IEEE Computer and Communications Societies. Driving the Information Revolution (Cat. No.97CB36034) **Part** vol.3 p. 1397-404 vol.3

**Publisher:** IEEE Comput. Soc. Press, Los Alamitos, CA, USA

**Publication Date:** 1997 **Country of Publication:** USA 3 vol. xxvi+1429 pp.

**ISBN:** 0 8186 7780 5 **Material Identity Number:** XX97-03041

**U.S. Copyright Clearance Center Code:** 0 8186 7780 5/97/\$10.00

**Conference Title:** Proceedings of INFOCOM '97

**Conference Sponsor:** IEEE Comput. Soc. Tech. Committee on Comput. Commun.; IEEE Commun. Soc.; IEICE of Japan; IPS (Inf. Process. Soc.) of Japan; ORS (Oper. Res. Soc.) of Japan

**Conference Date:** 7-11 April 1997 **Conference Location:** Kobe, Japan

**Language:** English

**Subfile:** B C

Copyright 1998, IEE

**Title:** Virtual LAN internetworking over ATM networks for mobile stations

**Abstract:** One of the most attractive features of the virtual LAN (VLAN) is the capability to group users into broadcast domains, which are independent of their locations on the physical network. This paper deals with the VLAN services using ATM LAN emulation technology which operates on a client/server model. The focuses are on the issues of supporting transparent VLAN services and internetworking among VLANs for mobile stations. A mobile VLAN (MVLAN) architecture is proposed, perhaps for the first time, to efficiently maintain multiple VLAN broadcast domains over a single ATM network even when the VLANs contain mobile stations. The proposed solution (1) ensures that layer 2 frames between a mobile station and any station, either static or mobile, that belongs to the original registered VLAN can be exchanged transparently, (2) provides transparent communications between VLANs using the layer 2 bridging approach, and (3) handles excessive server-to-server traffic efficiently, including the broadcast/multicast frames. The proposed MVLAN architecture moves one step closer towards facilitating the...

**Descriptors:** asynchronous transfer mode...

**Identifiers:** virtual LAN internetworking... ..VLAN services... ..mobile VLAN architecture

8/3,K/10 (Item 4 from file: 2) [Links](#)

Fulltext available through: [ScienceDirect](#)

INSPEC

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06323352 **INSPEC Abstract Number:** B9608-6210L-185, C9608-5620L-086

**Title:** Virtual LAN realization on an ATM connectionless public network

**Author** Asoh, J.; Arakawa, N.; Mizuno, H.; Kishino, K.

**Author Affiliation:** Oki Electr. Ind. Co. Ltd., Tokyo, Japan

**Conference Title:** 2nd Asia-Pacific Conference on Communications **Part** vol.2 p. 516-20 vol.2

**Publisher:** Waseda Univ., Tokyo, Japan **Country of Publication:** Japan 2 vol. xxiii+963 pp.

**Material Identity Number:** XX96-00829

**Conference Title:** Proceedings of Asia-Pacific Conference on Communications. APCC'95

**Conference Sponsor:** IEICE of Japan; Korean Inst. Commun. Sci.; Chinese Inst. Electr. Eng.; IEEE Commun. Soc.; Chinese Inst. Commun.; Inst. Eng

**Conference Date:** 13-16 June 1995 **Conference Location:** Osaka, Japan

**Language:** English

**Subfile:** B C

Copyright 1996, IEE

**Title:** Virtual LAN realization on an ATM connectionless public network

**Abstract:** ...to an ATM network. When that happens, we can expect demands for the realization of virtual LANs, with no distance limitations. If it becomes possible to configure a virtual LAN on the public network, an advantage for the user will be the assumption by the... ..the desktop workstations and personal computers used in today's LANs, and are likely to include also terminals that can be carried around easily, like the notebook computers and pen-based... ..Assuming such portable data terminals, another demand will no doubt be for the configuration of virtual LANs to which connection can be made from many different places on the public

network. Up to now, however, there have been very few studies on methods of realizing a virtual LAN using the public network. This paper assumes as the broadband data service in an ATM... ..the connectionless service network being deliberated in ITU-T SG13. As techniques for realizing a virtual LAN on a connectionless network, the authors studied the implementation of portability functions and propose specific...

**Descriptors:** asynchronous transfer mode...

**Identifiers:** virtual LAN realization...

8/3,K/11 (Item 1 from file: 256) [Links](#)

TecInfoSource

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00146019 **Document Type:** Review

**Product Names:** 802.11g (845132); 802.11a (845124); Fixed Wireless Services (844802)

**Title:** Fixed wireless links mobile nets

**Author:** Boch, Erik

**Source:** Electronic Engineering Times , v1257 p56(3) Feb 17, 2003

ISSN: 0192-1541

**Homepage:** <http://www.eet.com>

**File Segment:** Review

**Record Type:** Product Analysis

**Grade:** Product Analysis, No Rating

**Revision Date:** 20030730

...enabling IEEE (Institute of Electrical and Electronics Engineers) 802.11 standards that can be used, **including** 802.11g and 802.11a. The wireless LAN (WLAN) market should grow exponentially in the... ..sites have to function as if in the same building. WLANs are often used to **eliminate** wiring and to support **multiple** roaming of end-user terminals. To building a **multi**-building **VLAN** environment, LAN segments have to be interconnected between the buildings. Among topics covered are use...

8/3,K/12 (Item 2 from file: 256) [Links](#)

TecInfoSource

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00142697 **Document Type:** Review

**Product Names:** NetScreen 1000 Internet (088137)

**Title:** A pretty interface is not enough: Integrated firewall and VPN...

**Author:** Alexander, Mark

**Source:** Communications News , v39 n9 p14(3) Sep 2002

ISSN: 0010-3632

**Homepage:** <http://www.comnews.com>

**File Segment:** Review

**Record Type:** Product Analysis

**Grade:** Product Analysis, No Rating

**Revision Date:** 20040228

...the company bought its first firewall/VPN product with the NetScreen 1000 platform. NetScreen offered **virtual LAN** trunking of security with **multiple** security functions in a single device. It **included** VPN, DoS protection and authentication. It was easy to deploy and intuitive, and a major differentiator was application-based security. The appliances **eliminate** traditional choke points commonly experienced by software-based security running on general-purpose PCs. The ...